Title (en)

PHOTONIC BANDGAP STRUCTURES FOR MULTISPECTRAL IMAGING DEVICES

Title (de)

FOTONEN-BANDLÜCKENSTRUKTUREN FÜR MULTISPEKTRALE BILDGEBUNGSVORRICHTUNGEN

Title (fr)

STRUCTURES DE LARGEUR DE BANDE INTERDITE PHOTONIQUE POUR DISPOSITIFS D'IMAGERIE MULTISPECTRALE

Publication

EP 2773989 A4 20151021 (EN)

Application

EP 12845591 A 20121012

Priority

- US 201161555631 P 20111104
- US 2012060142 W 20121012

Abstract (en)

[origin: WO2013066606A1] The invention discloses methods for making photonic bandgap structures and photonic bandgap structures made by those processes. In one embodiment, the photonic bandgap structure is flexible. In another photonic bandgap structure, the structure has a graded, periodic grating. One embodiment of a method according to the present invention comprises the steps of preparing a pre-polymer mixture, positioning that mixture between two slides, exposing the mixture to electromagnetic radiation, curing the mixture, and discarding at least one of the slides. In another embodiment of the method, the pre-polymer mixture is exposed to the electromagnetic radiation through a prism. In one embodiment of the method, the pre-polymer mixture is exposed to the electromagnetic radiation through a lens. In one embodiment of the invention, the photonic bandgap structure is used as a filter in a multispectral imaging device comprising a imaging device, the filter, a processor, and an electronic image storage device.

IPC 8 full level

G02B 5/32 (2006.01); **G02B 6/12** (2006.01); **G02B 6/138** (2006.01)

CPC (source: EP US)

B82Y 20/00 (2013.01 - EP US); **G01J 3/0256** (2013.01 - EP US); **G01J 3/18** (2013.01 - EP US); **G01J 3/32** (2013.01 - EP US); **G02B 1/005** (2013.01 - US); **G02B 5/1857** (2013.01 - US); **G02B 6/1225** (2013.01 - EP US); **G02B 6/138** (2013.01 - EP US); **H04N 23/11** (2023.01 - US); **H04N 23/698** (2023.01 - US); G01J 2003/1213 (2013.01 - EP US); G02B 6/02133 (2013.01 - EP US)

Citation (search report)

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- See references of WO 2013066606A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2013066606 A1 20130510; CA 2854605 A1 20130510; EP 2773989 A1 20140910; EP 2773989 A4 20151021; US 2014313342 A1 20141023

DOCDB simple family (application)

US 2012060142 W 20121012; CA 2854605 A 20121012; EP 12845591 A 20121012; US 201214356253 A 20121012